

Claims

1. Iris prosthesis system with diaphragms that can be implanted in the anterior section of a human eye, individually or combined with one another, in order to create an artificial pupil opening, having at least one diaphragm that can be implanted in endocapsulary manner, at least one diaphragm that can be implanted in sulcus-positioned manner, and at least one diaphragm that can be implanted in iris-enclaved and/or sclera-fixed manner.
2. Iris prosthesis system according to claim 1, characterized in that the diaphragm that can be implanted in sulcus-positioned manner has a coverage region (10) on one side, along with a central aperture (12) and a stirrup-shaped haptic (14) on the other side of it.
3. Iris prosthesis system according to claim 2, characterized in that the haptic (14) is C-shaped.
4. Iris prosthesis system according to claim 2 or 3, characterized in that the diaphragm is provided with at least one opening (18, 20, 22) for a needle tip or a guide hook.
5. Iris prosthesis system according to one of claims 1 to 4, characterized in that the diaphragm that can be implanted in sulcus-positioned or iris-enclaved and/or sclera-fixed manner consists of essentially rigid planar elements that are divided on at least one fold line (26), and that the division is bridged with an elastic material that enters into an adhesive connection with the planar elements, that allows the diaphragm to be folded in half elastically, and that the latter is suitable for unfolding back into its original position by means of its inherent elasticity.

6. Iris prosthesis system according to claim 5, characterized by at least one straight fold line (26).
7. Iris prosthesis system according to claim 5 or 6, characterized in that the diaphragm has a single fold line (26).
8. Iris prosthesis system according to claim 6, characterized in that the diaphragm has two or more parallel fold lines (26).
9. Iris prosthesis system according to one of claims 5 to 8, characterized in that the elastic material is silicone (polyorganosiloxane).
10. Iris prosthesis system according to one of claims 5 to 9, characterized in that the planar elements of the diaphragm are provided with holes close to the edge, on both sides of the division.
11. Iris prosthesis system according to claim 10, characterized in that the holes are round holes (28).
12. Iris prosthesis system according to one of claims 1 to 11, characterized by a foldable fixation ring that can be inserted into a central aperture (12) of the diaphragms.
13. Iris prosthesis system according to one of claims 1 to 12, characterized by a lens that can be clipped into a central aperture (12, 38) of the diaphragms or of the fixation ring.
14. Lens, particularly lens for an iris prosthesis system according to one of claims 1 to 13, which has symmetry of rotation relative to a central axis crosswise to its main plane, a lens body (40) that is curved convex towards the outside, behind that a diameter setback (42), and adjacent to that an anchoring part (44) that is curved convex towards the outside, having a greater diameter.

15. Lens according to claim 14, characterized in that the diameter of the lens body (40) is greater than that of the anchoring part (44).
16. Iris prosthesis system according to one of claims 1 to 15, characterized in that the diaphragms consist of polymethyl methacrylate (PMMA) that is preferably dyed, particularly dyed with pigment dye, and that the lens consists of hydrophilic acrylate.